

FIGURE 2

MVRKNPPLRNVASEGEGQILEPIGTESKVSIGNKEFSADQMSEN TDQSDAAELNHKEEHLHVQDPSSSSKKDLKSAVLSEKAGFN YE
SPSKGGNFPSPHDEVTDRNM LAFSFPAAAGVCEPLKSPQRAEADDPQDMACTPSGDSLETKETDQKMSPKATEETGQAQSGQANCQGLS
PVSVAKNPQVPDGGVRLNKS KTDLLVNDNPDPAPLSP ELQDFKCNICGYGYGNDPTDLIKHFRKYHLGLHNRTRQDAELDSKILAL
HNMVQFSHSDQFQKVNRSVFSGLVDINSSRPVLLNGTYDVQVTSGGTFIGIGRKT PDCQGN TKYFRCKFCNF TYMGNSSTELEQHFLQ
THPNKIKASLPSSSEVAKPSEKNSNKSIPALQSSDSGDLGKWQDKITVKA GDDTPVGYSVPIKPLDSSRQNGTEATSY YWCKFCFSFSCES
SSSLKLEHYGKQHGA VQSGGLNPELNDKLSRGSVINQNDLAKSSEGETMTKTDKSSSGAKKKDFSSKGAEDNMVTSYNCQCFDFRYSK
SHGPDVIVVGPLLRHYQQ LHNHKTIKHCPFCPRGLCSPEKHLGEITYPFACRKSNCSCALLLHLSPGAAGSSSRVKHQCHQCSFTT
PDVDVLLFHYESVHESQASDVKQEA NHLQSGDQQSVKESKEHSC TKCDFITQVEEISRH YRRAHSCYKCRQCSFTAADTQSLLEHFN
TVHCQEQDIT TANGEEDGHAISTIK EEPKIDFRVYNLLTPDSKMGE PVSESVVKREKLEEKDGLKEKVWTESSSDDL RNVTWRGADILR
GSPSYTQASLGLLTPVSGTQEQT KTLRDSPNVEAAHLARPIYGLAVETKGFLQGAPAGGEKSGALPQQYPASGENKSKDESQSLLRRRR
GSGVFCANCLTTKTS LRKNANGGYVCNACGLYQKLHSTPRPLNI KQNNGEQIIRRRTRKRLNPEALQAEQLNKQQRGSN EEQVNGSP
LERRSEDHLTESHQREIPLPSLSKYEAQGLTKSHSAQQPVLVSQTLDIHKRMQPLHIQIKSPQESTGDPGNSSSVSEGGKSSERGSPI
EKYMRPAKHPNYSPPGSP IEKYQYPLFGLPFVHND FQSEADWLRFSWKYKLSVPGNPHYLSHVPGLPNPCQNYVPYPTFNLPPHFSAVG
SDNDIPLDLAIKHSRPGPTANGASKEKT KAPPNVKNEGPLNVVKT EKVD RSTQDELSTKCVHC GIVFLDEVMYALHMSCHGDSGPPFQCS
ICQHLCTDKYDFTTHIQRGLHRNNAQVEKNGKPK E

FIGURE 3A

original BCY1	(1)	1	110
MC50A19 BCY I	(1)	---	GCCGAGCTGCGCTGAAGGGCAGCAGCAACACCAAGGAGTGTGTTCCCGTGCCCACTCCGAGCACGTGGCCGAGATCGTGGGCAGGCAAGGCTGCAAGATTAAAGGC
MC50A6 BCY I	(1)	ATGGCCGAGCTGCGCTGAAGGGCGGCAGCAACACCAAGGAGTGTGTTCCCGTGCCCACTCCGAGCACGTGGCCGAGATCGTGGGGCAGGCAAGCTGCAAGATTAAAGGC	
MC50A8 BCY I	(1)	ATGGCCGAGCTGCGCTGAAGGGCGGCAGCAACACCAAGGAGTGTGTTCCCGTGCCCACTCCGAGCACGTGGCCGAGATCGTGGGGCAGGCAAGCTGCAAGATTAAAGGC	
MC54_21 BCY I	(1)	ATGGCCGAGCTGCGCTGAAGGGCGGCAGCAGCAACACCAAGGAGTGTGTTCCCGTGCCCACTCCGAGCACGTGGCCGAGATCGTGGGGCAGGCAAGGCTGCAAGATTAAAGGC	
MC55_29 BCY I	(1)	ATGGCCGAGCTGCGCTGAAGGGCGGCAGCAACACCAAGGAGTGTGTTCCCGTGCCCACTCCGAGCACGTGGCCGAGATCGTGGGGCAGGCAAGCTGCAAGATTAAAGGC	
MC55_32 BCY I	(1)	ATGGCCGAGCTGCGCTGAAGGGCGGCAGCAACACCAAGGAGTGTGTTCCCGTGCCCACTCCGAGCACGTGGCCGAGATCGTGGGGCAGGCAAGCTGCAAGATTAAAGGC	
Consensus	(1)	111	
original BCY1	(108)	111	
MC50A19 BCY I	(111)	CTTGAGGGCCAGAACCAACCTACATCAAGACACCGGTGAGGGGCGAGGAACACAGTGTTCATGTTGACAGGGCGACGGGAGGACGTGGCCACACAGCCCCGGGAAATCA	
MC50A6 BCY I	(111)	CTTGAGGGCCAGAACCAACCTACATCAAGACACCGGTGAGGGGCGAGGAACACAGTGTTCATGTTGACAGGGCGACGGGAGGACGTGGCCACACAGCCCCGGGAAATCA	
MC50A8 BCY I	(111)	CTTGAGGGCCAGAACCAACCTACATCAAGACACCGGTGAGGGGCGAGGAACACAGTGTTCATGTTGACAGGGCGACGGGAGGACGTGGCCACACAGCCCCGGGAAATCA	
MC54_21 BCY I	(111)	CTTGAGGGCCAGAACCAACCTACATCAAGACACCGGTGAGGGGCGAGGAACACAGTGTTCATGTTGACAGGGCGACGGGAGGACGTGGCCACACAGCCCCGGGAAATCA	
MC55_29 BCY I	(111)	CTTGAGGGCCAGAACCAACCTACATCAAGACACCGGTGAGGGGCGAGGAACACAGTGTTCATGTTGACAGGGCGACGGGAGGACGTGGCCACACAGCCCCGGGAAATCA	
MC55_32 BCY I	(111)	CTTGAGGGCCAGAACCAACCTACATCAAGACACCGGTGAGGGGCGAGGAACACAGTGTTCATGTTGACAGGGCGACGGGAGGACGTGGCCACACAGCCCCGGGAAATCA	
Consensus	(111)	221	
original BCY1	(218)	221	
MC50A19 BCY I	(221)	TCTCAGCAGCGGAGCACTTCTCCATGATCCGTGCTCCCGCAACAAGTCAGGCGCCGCTTTGGTGTGGCTCCTGCTCTGCCGGCCAGGTGACCATCCGTGTGCGGGTG	
MC50A6 BCY I	(221)	TCTCAGCAGCGGAGCACTTCTCCATGATCCGTGCTCCCGCAACAAGTCAGGCGCCGCTTTGGTGTGGCTCCTGCTCTGCCGGCCAGGTGACCATCCGTGTGCGGGTG	
MC50A8 BCY I	(221)	TCTCAGCAGCGGAGCACTTCTCCATGATCCGTGCTCCCGCAACAAGTCAGGCGCCGCTTTGGTGTGGCTCCTGCTCTGCCGGCCAGGTGACCATCCGTGTGCGGGTG	
MC54_21 BCY I	(221)	TCTCAGCAGCGGAGCACTTCTCCATGATCCGTGCTCCCGCAACAAGTCAGGCGCCGCTTTGGTGTGGCTCCTGCTCTGCCGGCCAGGTGACCATCCGTGTGCGGGTG	
MC55_29 BCY I	(221)	TCTCAGCAGCGGAGCACTTCTCCATGATCCGTGCTCCCGCAACAAGTCAGGCGCCGCTTTGGTGTGGCTCCTGCTCTGCCGGCCAGGTGACCATCCGTGTGCGGGTG	
MC55_32 BCY I	(221)	TCTCAGCAGCGGAGCACTTCTCCATGATCCGTGCTCCCGCAACAAGTCAGGCGCCGCTTTGGTGTGGCTCCTGCTCTGCCGGCCAGGTGACCATCCGTGTGCGGGTG	
Consensus	(221)	330	
original BCY1	(328)	331	
MC50A19 BCY I	(331)	CCCTACCGGTGGTGGGGCTGGTGGGCCCCAAAGGGGCAACCATCAAGCGCATCCAGCAGCAAAACCAACATACATTATACACCAAGCGGTGACCGCGACCCCGT	
MC50A6 BCY I	(331)	CCCTACCGGTGGTGGGGCTGGTGGGCCCCAAAGGGGCAACCATCAAGCGCATCCAGCAGCAAAACCAACATACATTATACACCAAGCGGTGACCGCGACCCCGT	
MC50A8 BCY I	(331)	CCCTACCGGTGGTGGGGCTGGTGGGCCCCAAAGGGGCAACCATCAAGCGCATCCAGCAGCAAAACCAACATACATTATACACCAAGCGGTGACCGCGACCCCGT	
MC54_21 BCY I	(331)	CCCTACCGGTGGTGGGGCTGGTGGGCCCCAAAGGGGCAACCATCAAGCGCATCCAGCAGCAAAACCAACATACATTATACACCAAGCGGTGACCGCGACCCCGT	
MC55_29 BCY I	(331)	CCCTACCGGTGGTGGGGCTGGTGGGCCCCAAAGGGGCAACCATCAAGCGCATCCAGCAGCAAAACCAACATACATTATACACCAAGCGGTGACCGCGACCCCGT	
MC55_32 BCY I	(331)	CCCTACCGGTGGTGGGGCTGGTGGGCCCCAAAGGGGCAACCATCAAGCGCATCCAGCAGCAAAACCAACATACATTATACACCAAGCGGTGACCGCGACCCCGT	
Consensus	(331)	440	

FIGURE 3A

original BCY1	441	GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	550
MC50A19 BCY I	(438)	GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	
MC50A6 BCY I	(441)	GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	
MC50A8 BCY I	(441)	GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	
MC54.21 BCY I	(441)	GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	
MC55.29 BCY I	(441)	GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	
MC55.32 BCY I	(441)	GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	
Consensus		GTTCGAGATCACGGGTGCCCCAGGCAACGTTGGAGCCTGCGCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAGTACAACAATGAAAAACGACT	
original BCY1	551	TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	660
MC50A19 BCY I	(548)	TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	
MC50A6 BCY I	(551)	TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	
MC50A8 BCY I	(551)	TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	
MC54.21 BCY I	(551)	TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	
MC55.29 BCY I	(551)	TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	
MC55.32 BCY I	(551)	TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	
Consensus		TCCTGGCGGGAGCCCGACGACGAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGGGTGCAACAGCCCGGTGCAAGCCCTCTCCACCTTCGCGGACAGACAGCCTGGGC	
original BCY1	661	TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	770
MC50A19 BCY I	(658)	TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	
MC50A6 BCY I	(661)	TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	
MC50A8 BCY I	(661)	TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	
MC54.21 BCY I	(661)	TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	
MC55.29 BCY I	(661)	TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	
MC55.32 BCY I	(661)	TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	
Consensus		TGCATCGGCGAGTGGGAGTGGACTCTGGCTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGGSGGTACCTCTTTCGCGGCTATGGCGTGGGCAA	
original BCY1	771	GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	880
MC50A19 BCY I	(768)	GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	
MC50A6 BCY I	(771)	GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	
MC50A8 BCY I	(771)	GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	
MC54.21 BCY I	(771)	GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	
MC55.29 BCY I	(771)	GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	
MC55.32 BCY I	(771)	GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	
Consensus		GCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAACGCCACGCCCACTCCGTGCTCTTCCTCTCCTCCTCCTCCT	

FIGURE 3A

original BCY1	(878)	881	CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCRG	990
MC50A19 BCY I	(881)		CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCAG	
MC50A6 BCY I	(881)		CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCAG	
MC50A8 BCY I	(881)		CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCAG	
MC54.21 BCY I	(881)		CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCAG	
MC55.29 BCY I	(881)		CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCAG	
MC55.32 BCY I	(881)		CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCAG	
Consensus			CTTCCGCCAAGGCCCCCGCTGGGCCCCCGGGCGCACACCGCTCCCTGSCCACTTCCGCGGACCCGAGCTGCGCGGACTCCCGAGGCGCCCCCGGGAGAGCCGCTCCAG	991
original BCY1	(988)		GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGAGCCCGCGGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	1100
MC50A19 BCY I	(991)		GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGAGCCCGCGGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	
MC50A6 BCY I	(991)		GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGG--CGGCGGGCGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	
MC50A8 BCY I	(991)		GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGG--CGGCGGGCGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	
MC54.21 BCY I	(991)		GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGG--CGGCGGGCGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	
MC55.29 BCY I	(991)		GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGG--CGGCGGGCGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	
MC55.32 BCY I	(991)		GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGG--CGGCGGGCGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	
Consensus			GGCTTCTCTAAACTTGGTGGGGCGGCTGCGAGCCCCCGAGCCCGCGGGGATTGTCATGGTCTGCTTTGAGAGCGAAGTGACTGCGCGCCCTTGTGCCCTGCGGACA	1101
original BCY1	(1098)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCACGCAAGCCATCCGAATATTCTCCTAA--	1210
MC50A19 BCY I	(1098)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCGCGCAAGCCATCCGAATATTCTCCTAAGGAT	
MC50A6 BCY I	(1098)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCGCGCAAGCCATCCGAATATTCTCCTAAGGAT	
MC50A8 BCY I	(1098)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCGCGCAAGCCATCCGAATATTCTCCTAAGGAT	
MC54.21 BCY I	(1098)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCGCGCAAGCCATCCGAATATTCTCCTAAGGAT	
MC55.29 BCY I	(1098)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCGCGCAAGCCATCCGAATATTCTCCTAA--	
MC55.32 BCY I	(1098)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCGCGCAAGCCATCCGAATATTCTCCTAA--	
Consensus	(1101)		CAACCTGTTCTGCATGGAGTGTGCAGTACGCATCTGCGAGAGGACCGACCCAGAGTGTCCCGTCTGCCCATCATCACAGCCGCGCAAGCCATCCGAATATTCTCCTAA--	1211
original BCY1	(1204)		-----	1248
MC50A19 BCY I	(1208)		CCACTAGTCCAGTGTGGGAATTCTGCAGATATCCA-	
MC50A6 BCY I	(1208)		CCACTAGTCCAGTGTGGGAATTCTGCAGATATCCA-	
MC50A8 BCY I	(1208)		CCACTAGTCCAGTGTGGGAATTCTGCAGATATCCA-	
MC54.21 BCY I	(1204)		-----	
MC55.29 BCY I	(1204)		-----	
MC55.32 BCY I	(1204)		-----	
Consensus	(1211)		-----	

FIGURE 3B

MAELRLKGSS NTTECVPVPT SEHVAEIVGR QGCKIKALRA KNTYIKTPV RGEFVFMVT GRREDVATAR REIISAAEHF SMIRASRNKS
GAAFGVAPAL PGQVTIRVRV PYRVVGLVVG PKGATIKRIQ QQTNTYIITP SRDRDPVFEI TGAPGNVERA REEETHIAV RTGKILEYNN
ENDFLAGSPD AAIDSRYSDA WRVHQPGCKP LSTFRQNSLG CIGECGVDSG FEAPRLGEQG GDFGYGGYLF PGYGVGKQDV YYGVAETSPP
LWAGQENATP TSVLFSSASS SSSSSAKARA GPPGAHRSPA TSAGPELAGL PRRPGEPLQ GFSLGGGGL RSPGGGRDCM VCFESEVTAA
LVPCGHNLCF MECAVRICER TDPECPVCHI TAAQAIRIFS